

AST-COMPUTER SCIENCE: EOU, SOU OR WOU TRANSFER TRACK

The Associate of Science Transfer in Computer Science (AST-CS) prepares students to transfer to a computer science program at:

- Eastern Oregon University (<https://www.eou.edu/computer-science/>) (EOU)
- Southern Oregon University (<https://sou.edu/academics/computer-science/>) (SOU)
- Western Oregon University (<https://wou.edu/cs/>) (WOU)

Students should work with their adviser, and their preferred transfer college, to pick the right classes. Students who complete the AST-CS will also complete the statewide Major Transfer Map (MTM) for Computer Science, and the Oregon Core Transfer Map (CTM.)

Note: This plan is specifically designed for transfer to a four-year institution and is not intended for students who seek direct entry into the job market after completion of an associate degree.

Code	Title	Credits
	Computer Science Core, 4 courses (p. 1)	16
	Calculus, 2 courses (p. 1)	10
COMM111Z	Public Speaking ★	4
	Written Communication, 2 courses (p. 1)	7-8
	Lab Science, 2 courses (p. 1)	6-10
	Arts & Letters, 2 courses (p. 2)	6-8
	Social Science, 2 courses (p. 3)	6-8
	Cultural Literacy, 1 course (p. 4)	
	Electives, to reach 90 credits	26-35
	Total Credits	90

Computer Science core

Four (4) courses:

Code	Title	Credits
CS160	Computer Science Orientation ★	4
CS161	Computer Science I	4
CS162	Computer Science II	4
CS260	Data Structures	4

Calculus

Two (2) courses:

Code	Title	Credits
MTH251	Calculus I: Differential Calculus	5
MTH252	Calculus II: Integral Calculus	5

Writing

Two (2) courses:

Code	Title	Credits
WR121Z	Composition I ★	4
WR122Z	Composition II ★	4

Lab Science

Two (2) courses:

Code	Title	Credits
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Recommended for Non-Science/Engineering Majors

<i>Anatomy</i>		
BI100	Survey of Body Systems ★	4
BI121	Essentials of Human Anatomy and Physiology I ★	4
BI122	Essentials of Human Anatomy and Physiology II ★	4
BI231	Human Anatomy and Physiology I ★	4
BI232	Human Anatomy and Physiology II ★	4
BI233	Human Anatomy and Physiology III ★	4

<i>Astronomy</i>		
PH104	Descriptive Astronomy	4

<i>Biology</i>		
BI101	General Biology: Cellular Biology ★	4
BI102	General Biology: Molecular Biology ★	4
BI103	General Biology: Ecology and Evolution ¹	4
BI132	Introduction to Animal Behavior ★ (formerly BI103; cannot be repeated for credit) ¹	4
BI133	Northwest Forest Ecology (formerly BI103; cannot be repeated for credit) ¹	4

<i>Chemistry</i>		
CH104	General Chemistry for Health Professions	5
CH105	Organic Chemistry for Health Professions	5
CH106	Biological Chemistry for Health Professions	5

<i>General Science</i>		
GS104	Physical Science - Physics	4
GS105	Physical Science: Chemistry of the Environment [‡]	4
	or GS105A Chemistry for the Consumer	
	or GS105B Chemistry of Food and Cooking	
GS106	Physical Science: Geology	4

<i>Geology</i>		
G148B	Volcanoes and Their Activity (formerly G148; cannot be repeated for credit) ²	4
G165	Regional Field Geology	3

Recommended for Science, Engineering or Other STEM-Focused Majors

<i>Biology</i>		
BI112	Biology for Health Professions (if taken in 2019 or later)	5
BI211	Principles of Biology I	5
BI212	Principles of Biology II	5
BI213	Principles of Biology III	5
BI234	Microbiology	4

<i>Chemistry</i>		
CH151	Basic Chemistry	4
CH221	General Chemistry I	5
CH222	General Chemistry II	5

CH223	General Chemistry III	5
CH241	Organic Chemistry I	5
CH242	Organic Chemistry II	5
CH243	Organic Chemistry III	5
<i>Natural Resources Ecology</i>		
F240	Natural Resources Ecology	4
<i>Fish & Wildlife</i>		
FW252	Mammals: Biology and Techniques	4
FW253	Field Ornithology	4
<i>Geology</i>		
G201	Principles of Physical Geology 1	4
G202	Principles of Physical Geology 2	4
G203	Principles of Historical Geology	4
<i>Physics</i>		
PH201	General Physics I	5
PH202	General Physics II	5
PH203	General Physics III	5
PH211	General Physics with Calculus I	5
PH212	General Physics with Calculus II	5
PH213	General Physics with Calculus III	5

‡ Students may receive credit toward credential completion for **one** of the GS105 course options.

¹ BI103 used to be taught as BI103A, 103B, 103C, etc. BI103B became BI132; BI103D became BI133. Students may receive credit toward credential completion for only **one** of the following: BI103, BI103A, BI103B, BI103C, BI103D, BI132, or BI133.

² Students may receive credit toward credential completion for **one** of the G148 options, either lab or non-lab but not both.

Arts & Letters

Two (2) courses:

Code	Title	Credits
Art/Art History		
ART115	Basic Design I: Two-Dimensional	4
ART116	Basic Design II: Color Theory	4
ART117	Basic Design III: Three- Dimensional	4
ART204	History of Western Art: Prehistoric - Byzantine ★	4
ART205	History of Western Art: Medieval - Renaissance ★	4
ART206	History of Western Art: Baroque - Modern ★	4
ART211	Survey of Visual Arts ★🌐	4
ART215P	Survey in Visual Arts: Photography	3
ART225	Digital Art Toolbox	4
ART226	Digital Drawing and Imaging	4
ART227	Introduction to Animation	4
ART231	Drawing I	4
ART232	Drawing II	4
ART233	Drawing III	4
ART234	Figure Drawing I	4
ART235	Figure Drawing II (if taken summer 2019 or later)	4
ART236	Figure Drawing III (if taken summer 2019 or later)	4
ART240	Illustration and Cartooning	4

ART244	Visual Storytelling	4
ART254	Ceramics I	4
ART255	Ceramics II	4
ART256	Ceramics III	4
ART257	Jewelrymaking/Metalsmithing I	4
ART258	Jewelrymaking/Metalsmithing II	4
ART259	Jewelrymaking/Metalsmithing III	4
ART260	Introduction to Digital Photography	4
ART261	Black and White Film Photography	3
ART262	Intermediate Black and White Film Photography	3
ART271	Printmaking I: Screenprint and Woodcut	4
ART272	Printmaking II: Silkscreen, Woodcut, and Intaglio	4
ART273	Printmaking III	4
ART281	Painting I	4
ART282	Painting II (if taken summer 2019 or later)	4
ART283	Painting III (if taken summer 2019 or later)	4
ART291	Sculpture I	4
ART292	Sculpture II	4
ART293	Sculpture III	4
ART294	Watercolor I	4
ART296	Watercolor II	4
ART297	Watercolor III (if taken summer 2019 or later)	4

Communication / Speech (cannot be same course used to fulfill Oral Communication requirement)

COMM100Z	Basic Speech Communication ★	4
COMM111Z	Public Speaking ★	4
COMM114	Argument and Critical Discourse	3
COMM115	Introduction to Intercultural Communication ★🌐	4
COMM218Z	Interpersonal Communication ★	4
COMM219	Small Group Communication	3

Creative Writing

WR240	Creative Writing: Nonfiction	4
WR241	Creative Writing: Fiction I ★	4
WR242	Creative Writing: Poetry I ★	4
WR244	Creative Writing: Poetry II	4
WR245	Creative Writing: Fiction II	4

English / Literature

ENG104Z	Introduction to Fiction ★	4
ENG105Z	Introduction to Drama ★	4
ENG106Z	Introduction to Poetry	4
ENG201	Shakespeare	4
ENG204	British Literature I: Old English to Renaissance ★	4
ENG205	British Literature II: Age of Enlightenment to Present ★🌐	4
ENG212	Latin American Literature ★	4
ENG218	Arthurian Legends	4
ENG222	Women's Literature 🌐	3
ENG250	Introduction to Mythology	4
ENG253	Survey of American Literature I ★🌐	4
ENG254	Survey of American Literature II ★🌐	4
ENG257	Introduction to African American Literature 🌐	4

ENG261	Literature of Science Fiction ★🌐	4
ENG271	World Literature: The Classical World (Ancient Literature to 1000 C.E.) 🌐	4
ENG272	World Literature: 1000 to 1800 C.E. 🌐	4
ENG273	World Literature: 1800 C.E. to the Present 🌐	4
Ethics in the Workplace		
HUM202	Ethics in the Workplace ★🌐	3
Film Studies		
FA257	Films and Society ★🌐	4
FA258	Understanding the Film ★🌐	4
FA266	Film Directors 🌐	4
FA270	Film Genres ★	4
Modern Languages (second-year)		
ASL201	Second-year American Sign Language I 🌐	4
ASL202	Second-year American Sign Language II 🌐	4
ASL203	Second-year American Sign Language III 🌐	4
JPN201	Second-year Japanese I 🌐	5
JPN202	Second-year Japanese II 🌐	5
JPN203	Second-year Japanese III 🌐	5
SPAN201	Second-year Spanish I 🌐	4
SPAN202	Second-year Spanish II 🌐	4
SPAN203	Second-year Spanish III 🌐	4
Music		
MUS101	Music Fundamentals	3
MUS103	Jazz History	3
MUS105	History of Rock	3
MUS111	Music Theory I	3
MUS112	Music Theory II	3
MUS113	Music Theory III	3
MUS201	Music in Cinema 🌐	3
MUS211	Music Theory IV 🌐	3
MUS212	Music Theory V 🌐	3
MUS213	Music Theory VI 🌐	3
MUS268	Music History: Baroque to Romantic 🌐	4
MUS279	Popular Songwriting	3
Philosophy		
PHL191	Language and the Layout of Argument	4
PHL201	Introduction to Philosophy ★🌐	4
PHL202	Fundamental Ethics ★🌐	4
Religion		
R210	World Religions ★🌐	3
R211	History of the Old Testament ★🌐	3
R212	History of the New Testament ★🌐	3
Theatre Arts		
TA101	Appreciating Theatre	3
TA106	Theatre History: Origins to the Renaissance ★🌐	3
TA107	Theatre History: Restoration to Contemporary ★🌐	3
TA121	Costuming	3
TA141	Acting Fundamentals I	3

TA142	Acting Fundamentals II	3
TA143	Acting Fundamentals III	3

Social Science

Two (2) courses:

Code	Title	Credits
General Social Science		
SSC100	Introduction to Social Entrepreneurship	4
Anthropology		
ANTH101	Introduction to Biological Anthropology ★	4
ANTH102	Introduction to Archaeology and World Prehistory ★🌐	4
ANTH103	Introduction to Cultural Anthropology 🌐	4
ANTH140	Language and Culture ★🌐	4
Communication		
COMM115	Introduction to Intercultural Communication ★🌐	4
Economics		
EC115	Introduction to Economics ★	3
EC201	Principles of Economics I: Microeconomics ★	4
EC202	Principles of Economics II: Macroeconomics ★	4
Geography		
GEOG105	Introduction to Physical Geography	3
GEOG106	Introduction to World Regional Geography 🌐	3
GEOG107	Introduction to Cultural Geography 🌐	3
GEOG202	The Geography of Europe 🌐	3
GEOG206	Geography of Oregon 🌐	3
GEOG209	Geography of the Middle East and North Africa 🌐	3
GEOG214	Geography of Mexico and Central America 🌐	3
GEOG290	Environmental Problems and Restoration	3
History		
HST101	Western Civilization: Ancient and Classical Europe 🌐	4
HST102	Western Civilization: Medieval and Early Modern Europe 🌐	4
HST103	Western Civilization: Modern Europe 🌐	4
HST110	Ancient World History ★🌐	4
HST111	Medieval World History ★🌐	4
HST112	Modern World History ★🌐	4
HST195	History of the Vietnam War 🌐	3
HST201	U.S. History: Pre-Colonial-1840 ★	4
HST202	U.S. History: 1840 - 1917 ★	4
HST203	U.S. History: 1910 - Present ★	4
HST204	Women in U.S. History 🌐	4
HST225	Women in World History 🌐	4
HST237	America in the 1960s	3
HST264	African-American History: 1500 - 1870s ★🌐	4
HST265	African-American History: 1870 - Present ★🌐	4
HST270	History of Mexico 🌐	4
International Studies		
INTL101	Introduction to International Studies ★🌐	4

Journalism		
J211	Introduction to Mass Communications	3
Music History		
MUS103	Jazz History (if taken summer 2020 or later)	3
MUS105	History of Rock (if taken summer 2020 or later)	3
MUS201	Music in Cinema 🎧	3
MUS268	Music History: Baroque to Romantic 🎧 (if taken summer 2020 or later)	4
MUS279	Popular Songwriting	3
Political Science		
PS200	Introduction to Political Science ★	4
PS201	American Government ★	4
PS203	State and Local Governments	4
PS204	Introduction to Comparative Politics	4
PS205	International Relations ★🎧	4
PS209	Problems in American Politics	4
PS215	Global Issues	4
PS217	Introduction to Public Land Management: The Politics of Recreation	3
PS225	Political Ideology: Ideas About Government	4
PS241	Introduction to Political Terrorism ★	4
Psychology		
PSY101	Psychology of Human Relations ★	3
PSY151	Introduction to the Social Sciences	3
PSY201Z	Introduction to Psychology I ★	4
PSY202Z	Introduction to Psychology II ★	4
PSY214	Introduction to Personality 🎧	4
PSY216	Social Psychology	3
PSY231	Human Sexuality	3
PSY232	Sexuality and Society ★🎧	3
PSY237	Human Development ★	4
PSY239	Introduction to Abnormal Psychology ★	4
Sociology		
SOC204	General Sociology: Principles of Sociology ★	3
SOC205	General Sociology: Social Institutions ★	3
SOC206	General Sociology: Social Problems ★	3
SOC213	Race Relations in the United States ★🎧	3
SOC215	Gender and Society ★🎧	3
SOC216	Sociology of the Family ★	3
SOC223	Sociology of Aging ★	3
Theatre History		
TA106	Theatre History: Origins to the Renaissance ★🎧 (if taken summer 2021 or later)	3
TA107	Theatre History: Restoration to Contemporary ★🎧 (if taken summer 2021 or later)	3
Women's Studies		
WS101	Introduction to Women's Studies ★🎧	3
World Literature		
ENG271	World Literature: The Classical World (Ancient Literature to 1000 C.E.) 🎧 (if taken summer 2020 or later)	4

ENG272	World Literature: 1000 to 1800 C.E. 🎧 (if taken summer 2020 or later)	4
ENG273	World Literature: 1800 C.E. to the Present 🎧 (if taken summer 2020 or later)	4

Cultural Literacy

One (1) course from Arts & Letters, Social Science, or elective that is designated as fulfilling cultural literacy.

Please note: Cultural Literacy is the only degree requirement that can be "double-dipped."

For example:

- MUS268 will fulfill the Cultural Literacy requirement, **and** count toward either Arts & Letters *or* Social Science.
- COMM115 will fulfill the Cultural Literacy requirement, **and** count toward either Oral Communication *or* Arts & Letters.

Always check your official degree audit on MyMHCC to see how courses are counting toward your chosen degree's requirements.

Code	Title	Credits
ANTH102	Introduction to Archaeology and World Prehistory ★🎧	4
ANTH103	Introduction to Cultural Anthropology 🎧	4
ANTH140	Language and Culture ★🎧	4
ART211	Survey of Visual Arts ★🎧	4
ASL201	Second-year American Sign Language I 🎧	4
ASL202	Second-year American Sign Language II 🎧	4
ASL203	Second-year American Sign Language III 🎧	4
COMM115	Introduction to Intercultural Communication ★🎧	4
ENG204	British Literature I: Old English to Renaissance ★ 🎧	4
ENG205	British Literature II: Age of Enlightenment to Present ★🎧	4
ENG222	Women's Literature 🎧	3
ENG253	Survey of American Literature I ★🎧	4
ENG254	Survey of American Literature II ★🎧	4
ENG257	Introduction to African American Literature 🎧	4
ENG261	Literature of Science Fiction ★🎧	4
ENG271	World Literature: The Classical World (Ancient Literature to 1000 C.E.) 🎧	4
ENG272	World Literature: 1000 to 1800 C.E. 🎧	4
ENG273	World Literature: 1800 C.E. to the Present 🎧	4
FA257	Films and Society ★🎧	4
FA258	Understanding the Film ★🎧	4
FA266	Film Directors 🎧	4
GEOG106	Introduction to World Regional Geography 🎧	3
GEOG107	Introduction to Cultural Geography 🎧	3
GEOG202	The Geography of Europe 🎧	3
GEOG206	Geography of Oregon 🎧	3
GEOG209	Geography of the Middle East and North Africa 🎧	3
GEOG214	Geography of Mexico and Central America 🎧	3

HST101	Western Civilization: Ancient and Classical Europe 🌐	4
HST102	Western Civilization: Medieval and Early Modern Europe 🌐	4
HST103	Western Civilization: Modern Europe 🌐	4
HST110	Ancient World History ★🌐	4
HST111	Medieval World History ★🌐	4
HST112	Modern World History ★🌐	4
HST195	History of the Vietnam War 🌐	3
HST204	Women in U.S. History 🌐	4
HST225	Women in World History 🌐	4
HST264	African-American History: 1500 - 1870s ★🌐	4
HUM202	Ethics in the Workplace ★🌐 (if taken summer 2019 or later)	3
INTL101	Introduction to International Studies ★🌐	4
JPN201	Second-year Japanese I 🌐	5
JPN202	Second-year Japanese II 🌐	5
JPN203	Second-year Japanese III 🌐	5
MUS201	Music in Cinema 🌐	3
MUS211	Music Theory IV 🌐	3
MUS212	Music Theory V 🌐	3
MUS213	Music Theory VI 🌐	3
MUS268	Music History: Baroque to Romantic 🌐	4
PHL201	Introduction to Philosophy ★🌐	4
PHL202	Fundamental Ethics ★🌐	4
PS205	International Relations ★🌐	4
PSY214	Introduction to Personality 🌐	4
PSY232	Sexuality and Society ★🌐	3
R210	World Religions ★🌐	3
R211	History of the Old Testament ★🌐	3
RD117	Critical Reading ★	3
SOC213	Race Relations in the United States ★🌐	3
SOC215	Gender and Society ★🌐	3
SPAN201	Second-year Spanish I 🌐	4
SPAN202	Second-year Spanish II 🌐	4
SPAN203	Second-year Spanish III 🌐	4
TA106	Theatre History: Origins to the Renaissance ★🌐	3
TA107	Theatre History: Restoration to Contemporary ★🌐	3
WS101	Introduction to Women's Studies ★🌐	3

as identified by the approved course lists at the community college where and when they were taken.

To be awarded the AST degree, students must:

- Complete all requirements to total 90 applicable degree credits.
- Pass all courses with a grade of "C" or better.
- Have a minimum cumulative GPA of 2.00 at the time the AST is awarded.
- Satisfactorily earn 12 credit hours at MHCC. Non-traditional credit (College Level Examination Program, Experience-Based Credit, Challenge, etc.) does not satisfy this requirement.

If a course is taken as a P/NP and the student receives a "Pass" ("P"), it is considered equivalent to a C or better at all Oregon community colleges. However, it is recommended that students take courses for a letter grade and not P/NP; some individual AST majors may limit P/NP options for specific requirements, and such limits will be noted in the major specific requirements in the MTM MOU.

Please note: Courses may not be repeated for credit unless specified in the course description.

To check your official progress toward graduation, log on to MyMHCC (<https://my.mhcc.edu/>) and click "View My Degree Audit."

- ★ Course offered online
- 🌐 Cultural Literacy course

Electives may include:

- Any college-level (100 level or above) transferable course.
- Up to 12 credits of career-technical courses.
- Up to 6 credits of PE185, 15 credits of IECC (200-level), and 12 credits of Lower Division Collegiate Cooperative Education Internship may be applied as elective credits to the AST. See the Course Information section for elective credit/course eligibility.
- When students complete courses at more than one Oregon community college, the AST-granting institution will apply courses that students transfer in from other Oregon community colleges to meet Core Transfer Map and Major requirements as intended and